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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,418	09/20/2005	Richard Munro Dorward	P/63803	3192
156 VIDSCUSTED	7590 02/05/2008 N OTTINGED ISPAEL	EXAMINER		
KIRSCHSTEIN, OTTINGER, ISRAEL & SCHIFFMILLER, P.C. 489 FIFTH AVENUE NEW YORK, NY 10017			BELLO, AGUSTIN	
			ART UNIT	PAPER NUMBER
			2613	
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	•		MAIL DATE	DELIVERY MODE
	•		02/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Examiner Agustin Bello Art Unit Agustin Bello Agustin Bello Art Unit Agustin Bello	1	Application No.	Applicant(s)			
Agustin Bello  Ashortened Stratutory Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  If NO period for reply is appecified above, the maximum stations period will apply and will easier SIX (9) MONTHS from the maining date of this communication.  If NO period for reply is appecified above, the maximum stations period will apply and will easier SIX (9) MONTHS from the maining date of this communication.  If NO period for reply is appecified above, the maximum stations period will apply and will easier SIX (9) MONTHS from the maining date of this communication.  If NO period for reply is appecified above, the maximum stations period will apply and will easier SIX (9) MONTHS from the maining date of this communication.  If NO period for reply is appecified above, the maximum stations period will apply and will easier SIX (9) MONTHS from the maining date of this communication.  If NO period for reply is appecified above, the maximum stations period will apply and will easier station to reply and the service of the maining date of this communication.  If NO period for reply is appecified above, the maximum stations period will apply and will easier stations are maining date of this communication.  If NO period for reply is appecified above, the maximum stations period will apply and will easier stations are maining date of this communication.  If NO period for reply is appecified above, the maximum stations period will apply and will easier stations.  If NO period for reply station is non-final.  If NO period for reply station is non-final.  If NO period for station is no		10/550,418	DORWARD, RICHARD MUNRO			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Elements of them rays be available under the provisions of 30 FR1 1360, in no event however, may a reply be timely filled after 50 K in 10 K	Office Action Summary	Examiner	Art Unit			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extractions of time rangy be arealized under the provisions of 37 GFR 1-136(a). In no event, however, may a reigh be timely filed.  - Extractions of time rangy be arealized under the provisions of 37 GFR 1-136(a). In no event, however, may a reigh be timely filed.  - If No period to reply is specified above, the measure analization part and supply and will expire \$(M) (M) MITTEN the meaning date of this communication.  - Failure to reply within the set or extended period for right yet. By statule, cause the application to become ARABOONED (15 U S C § 133).  - Failure to reply within the set or extended period for right yet. By statule, cause the application to become ARABOONED (15 U S C § 133).  - Failure to reply within the set or extended period for right yet. By statule, cause the application to become ARABOONED (15 U S C § 133).  - Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  - A) Claim(s) 33-48 is/are pending in the application.  - 4a) Of the above claim(s)		Agustin Bello	2613			
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Edenisors of time may be available under be provisions of 37 CPR 1.13(8). In or event, however, may a reply be timely filed after SIX (8) MONTHS from the mailing date of this communication.  If NO peeds for triply is specified above, the maintent stations period will apply and will apply a ONITHS from the mailing date of this communication.  If NO peeds for triply is specified above, the maintent stations period will apply and will apply app	, •		AONTHAN OF THEFTY (20) DAYO			
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  Attachment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO/SB/08)						
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3) Information Disclosure Statement(s) (PTO/SB/08)		) Paper No(	(s)/Mail Date			
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### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/7/08 has been entered.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 33-35, 38, and 43-48 are rejected under 35 U.S.C. 102(e) as being anticipated by Pitchforth (U.S. Patent Application Publication No. 2004/0004709).

Regarding claim 33, Pitchforth teaches connecting to the first point of the optical fiber cable an optical component (reference numeral 102 in Figure 1); detecting a loss of connection between the first and the second points of the optical fiber (paragraph [0032]); connecting to the second point of the optical fiber cable an optical time domain reflectometer (OTDR) operative for emitting OTDR signals along the optical fiber cable towards the optical component (reference numeral 112 in Figure 2; paragraph [0027]), introducing at least one optical signal into the optical fiber cable at the first point thereof (reference numeral 102 in Figure 1); using the

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optical fiber cable to carry the at least one optical signal to the second point thereof (reference numeral 116 in Figure 1); and configuring the OTDR to detect the at least one optical signal from the optical fiber cable and to prevent emission of the OTDR signals at any time during which detection of the at least one optical signal occurs (paragraph [0032, 0034]).

Regarding claim 34, Pitchforth teaches the step of configuring the optical component to be an optical receiver (as indicated by the bi-directional arrows at the input/output of reference numeral 102 in Figure 1), and in which the introducing step is performed by arranging the optical receiver to introduce the at least one optical signal into the optical fiber cable.

Regarding claim 35, Pitchforth teaches that the arranging step is performed by configuring the optical receiver with a transmitting device, and the step of transmitting the at least one optical signal from the transmitting device into the optical fiber cable (as indicated by the bi-directional arrows at the input/output of reference numeral 102 in Figure 1).

Regarding claim 38, Pitchforth teaches that introducing step is performed by superimposing a plurality of optical signals onto the optical fiber cable (paragraph [0025]).

Regarding claim 43, Pitchforth teaches the step of configuring the OTDR to be a transmitter operated to emit the OTDR signals (paragraph [0055]).

Regarding claim 44, Pitchforth teaches the step of disabling the OTDR transmitter to prevent emission of the OTDR signals at any time during which detection of the at least one optical signal occurs (i.e. during normal mode paragraph [0027]).

Regarding claim 45, Pitchforth teaches the step of configuring the OTDR to be a detector operated to detect the at least one optical signal from the optical fiber cable (reference numeral 204 in Figure 2).

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Regarding claim 46, Pitchforth teaches the step of configuring the OTDR detector to be able to detect the at least one optical signal in a wavelength range of approximately 1250 nm to approximately 1700 nm (inherent).

Regarding claims 47 and 48, Pitchforth teaches the step of configuring the OTDR detector to be used to receive echoes of the OTDR signals (inherent in OTDR).

# Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 36-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pitchforth in view of Shigematsu (U.S. Patent No. 5,214,728).

Regarding claims 36 and 37, Pitchforth teaches the step of configuring the optical component to be a receive optical amplifier (reference numeral 106 in Figure 1), and in which the introducing step is performed by arranging the receive amplifier to introduce the at least one optical signal into the optical fiber cable (inherent function of an optical amplifier). Pitchforth differs from the claimed invention in that Pitchforth fails to specifically teach that optical component comprises a receive erbium doped fiber amplifier (EDFA), where the arranging step is performed by controlling isolation of an input isolator of the receive EDFA such that, in the absence of an input signal thereto, the at least one optical signal in the form of amplified spontaneous emission noise escapes from an input of the receive EDFA and is introduced into the optical fiber cable. However, Shigematsu teaches that the use of EDFA with an input

isolator in optical communication system is well known in the art. Furthermore, there being no physical difference between what is claimed and what is taught by Shigematsu, one skilled in the art would clearly have had the ability to arrange the EDFA in order to control the isolation of the input isolator as claimed in order to introduce a signal into the fiber in the form of ASE. Furthermore, Pitchforth teaches that the OTDR logic is implemented at each of the amplifier sites, thereby suggesting that the amplifier is capable of being configured as claimed. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to employ the isolator EDFA combination as taught by Shigematsu in the system of Pitchforth.

6. Claims 39-42 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pitchforth.

Regarding claims 39-42, Pitchforth teaches multiplexing of a plurality of different wavelength optical signals onto a fiber, but differs from the claimed invention in that it fails to specifically teach that the multiplexed optical signals are pilot signals at wavelength different from the traffic signal wavelengths or optical service channels or a plurality of OSC signals. However, Official Notice is given that multiplexing of a plurality of pilot signals at wavelength different from that of traffic signals onto an optical fiber is also well known in the art as is multiplexing a plurality of optical service channels onto a fiber. Furthermore, Pitchforth at least teaches the use of OSC signals, thereby suggesting that a plurality of such signals could be used. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to multiplex a plurality of pilot signals at wavelength different from that of traffic signals or optical service channels onto an optical fiber as would multiplexing a plurality of optical service channels onto a fiber.

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## Response to Arguments

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7. Applicant's arguments filed 1/7/08 have been fully considered but they are not persuasive. The applicant argues that the amended claim language distinguishes the instant application from the cited prior art to Pitchforth. However, the examiner disagrees. As noted above, Pitchforth clearly meets the newly added limitation by disclosing detection of a loss of sig between two points in the system.

8. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., introducing an optical signal into a fiber then detecting by an OTDR the signal after a loss of connection is detected) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agustin Bello whose telephone number is (571) 272-3026. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571)272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Agustin Bello Primary Examiner Art Unit 2613